

UNITED STATES MARINE CORPS
Logistics Operations School
Marine Corps Combat Service Support Schools
PSC Box 20041
Camp Lejeune, North Carolina 28542-0041

LOC 1206

STUDENT OUTLINE

TRANSPORTATION

LEARNING OBJECTIVES

1. Terminal Learning Objective: Given commander's guidance, unit T/O&E, and the references, supervise a unit ammunition account, to ensure requirements are accurately calculated and maintained to support mission requirements. (0402.01.03)
2. Enabling Learning Objective: Given commander's guidance, the billet of the unit ordnance officer, a written test, and the references, identify requirements for the transportation of ammunition, per the references. (0402.01.03c)
 - a. Identify unit transportation responsibilities.
 - b. Identify vehicle requirements.
 - c. Identify the requirements for transportation of ammunition and explosives.
 - d. Identify the requirements for explosive drivers.
 - e. Identify the vehicle safety guidelines.
 - f. Identify the security requirements for transportation of ammunition.

OUTLINE

1. **UNIT TRANSPORTATION RESPONSIBILITIES**: Generally, units have the following responsibilities regarding ammunition transportation:
 - a. Requesting or providing transportation and armed security

as appropriate for all movements of Class V(W) material.

b. Requesting or providing transportation for the return of unexpended ammunition, brass, empty ammunition containers, and salvageable components.

c. Transporting and securing ammunition within maneuver areas in connection with field training and firing exercise.

d. Ensuring that all vehicular security and safety requirements are followed.

e. Providing a working party with an appropriate number of personnel to expedite loading of unit vehicles when required.

f. Providing a means of securing the load, e.g., tie downs, in order to prevent shifting in transit.

2. VEHICLE REQUIREMENTS FOR TRANSPORTING AMMUNITION

a. Authorized Vehicles. All tactical cargo vehicles and all tactical trailers are acceptable for transporting explosives provided the ammunition or explosives are packed in the original containers. If the ammunition is not in original containers, wooden dunnage/planking must be used to protect the ammunition or explosive from ferrous metal bed of the vehicle. Dunnage must be used when transporting fiber containers with metal ends to ensure that the metal ends do not contact metal truck beds. The following is a list of vehicles that are authorized to transport ammunition and explosives:

(1) Amphibious cargo vehicles (wheeled or tracked).

(2) Tactical wheeled vehicles and trailers to carry ammunition or explosives provided not more than one truck and one trailer comprise a combination.

(3) Tanks carrying basic allowance (B/A).

(4) Truck, tractor with semi trailers (side members, end members and fire retardant tarpaulins) are required.

(5) Landing craft assigned to an amphibious exercise.

(6) Commercial vehicles, 1/2 ton or larger (side members, end members and fire retardant tarpaulins) are required.

b. Prohibited Vehicles. The following is a general list of vehicles prohibited from transporting ammunition:

(1) Mail or parcel post vehicles, and private vehicles.

(2) Passenger carrying buses.

(3) Amphibious vehicles carrying troops (except for the B/A carried by the individuals and for crew served weapons).

(4) Vehicles having high frequency electrical transmitting equipment.

c. Inspection of Vehicles:

(1) Motor Pool Inspection. Prior to being dispatched, all motor vehicles transporting ammunition will be inspected by qualified personnel, and a DD form 626 will be filled out in detail through item 11. The original and one copy of the DD form 626 will remain with the driver when the vehicle is dispatched.

(2) Ammunition Magazine Inspection. Qualified personnel at the ASP will inspect all vehicles, using DD Form 626, to ensure they are free from fire hazards and are mechanically safe prior to being loaded with ammunition or explosives.

3. REQUIREMENTS FOR TRANSPORTATION OF AMMUNITION AND EXPLOSIVES

a. Placard Requirements:

(1) All vehicles transporting ammunition and explosives, chemical ammunition, or other dangerous articles will display DOT approved EXPLOSIVE 1.1, 1.2, or 1.3 placards, as

applicable. These placards will be secured to the front, rear, and both sides of the vehicle.

(2) When a vehicle contains more than one type of hazard (i.e. Explosive 1.1 and Explosive 1.3), the vehicle will display the greater hazard placard (Explosive 1.1).

(3) Explosive placards will be removed from the vehicle when ammunition is not being transported.

(4) Explosive placards will be provided by the unit furnishing the vehicle transporting the Class V(W) material.

b. Fire Extinguishers. Each vehicle transporting ammunition or explosives shall be equipped with one ten pound purple-k powder fire extinguisher having an Underwriter's Laboratory rating of 10B:C or greater or one CO₂ type, fifteen pound capacity extinguisher.

c. Required Forms / Items. Per NAVSEA SWO20-AF-ABK-010 and local SOPS, the following forms / items will be in the custody of the explosive driver for each vehicle transporting ammunition or explosives:

(1) Armed Forces Identification Card.

(2) NAVSEA SWO20-AF-ABK-010, Glove Box Edition.

(3) NAVMC 10627 (SD) 1265, Vehicle and Equipment operation Record (Trip ticket).

(4) SF 91 and SF 91A, Operators Report of Motor Vehicle Accident.

(5) DD Form 626 (6-72) Inspection Report (original and one).

(6) Standard Form 46 (SF 46) or Optional Form 346 (OP 346); Motor Vehicle Operator's License with "Explosive Qualified" stamped or typed thereon and signed by proper authority.

NOTE: The explosive qualification must be renewed before the operator's license expires.

(7) DD Form 836 (Special Instructions for Drivers) when transporting Class V(W) over public roads within CONUS.

NOTE: When required, this form will be provided by the ASP personnel.

(8) Medical Examiner's Certificate (renewed every 5 years).

(9) A valid state driver's license, not necessarily from the state in which the driver is currently stationed.

(10) All equipment required by Chapter 4 of NAVMC SWO20-AF-ABK-010.

d. General Transportation Guidance

(1) Blasting Caps. Under NO circumstances will both the caps and explosives be transported in the same cargo space. EOD are the only personnel authorized to carry blasting caps in the passenger section of a vehicle. Furthermore, they must be in the MK 663 container and placed in the glove box. All other units must follow normal transportation regulations.

(2) Incendiaries. Explosives, Class 1.1, 1.2, and 1.3 will not be transported with White Phosphorous (WP), either with or without bursting charges. However, if a vehicle is available with an authorized trailer properly attached, High Explosives (HE) may be placed in the cargo space of the vehicle while WP is being transported in the trailer.

(3) Cargo Space. The cargo space of vehicles used to transport ammunition will be free of all foreign material.

(4) Fuzes. Fuzes will not be loaded in the cargo space of vehicles transporting projectiles.

4. REQUIREMENTS FOR EXPLOSIVE CERTIFIED DRIVERS

a. Qualifications: The following qualifications apply to explosive certified drivers transporting ammunition both on and off base:

(1) Must be 21 years old or older to transport ammunition off base over public highways and 18 years or older on base.

(2) Must have considerable and varied driving experience with the type of equipment they will be expected to operate.

(3) Be able to read, write, and understand English.

(4) Must be physically qualified in accordance with NAVSEA SWO20-AF-ABK-010.

(5) Must have attended a twelve hour Explosives Drivers Course, in accordance with NAVSEA SWO20-AF-ABK-010, and participated in subsequent biannual refresher training.

b. Training Requirements. All explosives drivers shall attend an Explosives Driver's Course and receive at least 12 hours of instruction and training in the following:

(1) Driving trucks, truck-tractors with semitrailers, and other vehicles of appropriate types.

(2) Handling and transporting hazardous materials.

(3) Regulations and procedures pertaining to transporting hazardous materials.

(4) Proper use of fire extinguishers.

(5) Completing and filing required reports.

5. VEHICLE SAFETY GUIDELINES

a. Before any ammunition is loaded or unloaded from a vehicle, the engine must be "off," the parking brake set, and the wheels chocked.

b. No leaking or damaged Class V(W) container will be accepted for transportation.

c. Vehicles loaded with ammunition shall not be allowed to

enter troop inhabited areas, to park in a public parking lot, or to stand overnight except in an authorized "holding area," etc.

d. The gross weight of ammunition loaded in a vehicle will not exceed the rated load capacity of that vehicle.

6. SECURITY REQUIREMENTS FOR TRANSPORTATION OF AMMUNITION.

Ammunition which is being transported from one local area to another will be under the constant surveillance of an armed guard.

a. On Base. Security requirements for transporting ordnance on base may be satisfied by a minimum of one armed guard, in addition to the driver of the vehicle.

b. Off Base.

(1) Vehicles should have internal communication between each vehicle.

(2) Prior liaison with the principal law enforcement agencies having jurisdiction will be effected via the Base Provost Marshal before departure of any vehicle transporting ammunition.

(3) Arms and compatible ammunition will not be transported off base in the same vehicle.

(4) If ammunition is being transported 100 miles or more by government vehicle, approval must be granted by the Installation Commander. This is normally given through the Explosive Safety Office.

c. Category I Ammunition. Category I Ammunition (TOW, DRAGON) must be handled with extreme care at all times because of its sensitive nature. Some additional requirements must be met when transporting Category I items on or off base:

(1) Only a SNCO or above or civilian equivalent may receipt for Cat I Ammunition.

(2) At least two armed guards must accompany ALL Cat I shipments.

(3) An extra explosive certified vehicle must accompany all off-station shipments in case the primary carrier breaks down.

(4) Category I Ammunition must **NEVER** be left unattended.

****NOTE**** These are minimum requirements, always check local SOPs to ensure compliance with regulations and directives.

REFERENCES:

1. MCO 8020.10. Handling, Transportation, and Storage of Class V(W) Ammunition
2. NAVSEA SWO 20-AG-SAF-010. Navy Transportation Safety Handbook for Ammunition, Explosives, and Related Hazardous Materials
3. NAVSEA SWO 20-AF-ABK-010. Motor Vehicle Driver's Handbook for Ammunition, Explosives, and Hazardous Material
4. OPNAVINST 5530.13. Department of the Navy Physical Security Instruction for Sensitive Conventional Arms, Ammunition, and Explosives